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PTO-1390 (AW 09-30-04)

## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 U.S. APPLICATION NO. (If known, see 37 CER 1.5) To Be as lighted PRIORITY DATE CLAIMED

			To Be Assigned 51 / 188				
INTERNATIONAL APPLICATION N PCT/JP2003/007600		RNATIONAL FILING DATE 5.03 (16 June 2003)	PRIORITY DATE CLAIMED 19.06.02 (19 June 2002)				
TITLE OF INVENTION FLEXIBLE PTC HEATING ELEMENT AND METHOD OF MANUFACTURING THE HEATING ELEMENT							
APPLICANT(S) FOR DO/EO/US Takahito ISHII, Keiko YASUI, Seishi TERAKADO, Kazuyuki KOHARA and Mitsuru YONEYAMA							
Applicant herewith submits to the U	Inited States Desi	gnated/Elected Office (DO/EO/U	S) the following items and other information:				
1. 🛛 This is a <b>FIRST</b> subm	nission of items	concerning a submission un	der 35 U.S.C. 371.				
2. This is a <b>SECOND</b> or	SUBSEQUENT	submission of items concer	ning a submission under 35 U.S.C. 371.				
3. A This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4.	ted (Article 31)						
5. 🛛 A copy of the Interna	tional Application	on as filed (35 U.S.C. 371(c)	(2))				
<ul> <li>a.   is attached hereto (required only if not communicated by the International Bureau).</li> <li>b.   has been communicated by the International Bureau.</li> <li>c.   is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul>							
6. An English language	translation of th	e International Application a	s filed (35 U.S.C. 371(c)(2)).				
a. $oxtimes$ is attached here $oxtimes$ has been prev		d under 35 U.S.C. 154(d)(4)					
7. Amendments to the o	laims of the Int	ernational Application under	PCT Article 19 (35 U.S.C. 371(c)(3))				
b.  have been com	nmunicated by t made; howeve		the International Bureau).				
8.   An English language t	ranslation of the	e amendments to the claims	under PCT Article 19 (35 U.S.C.				
371(c)(3)).							
	executed oath	or declaration of the invento	r(s) (35 U.S.C. 371(c)(4)).				
10. An English language tunderPCT Article 36 (			al Preliminary Examination Report				
Items 11 to 20 below conce	rn documents sure Statement	(s) or information include under 37 C.F.R. 1.97 and 1	ed: 98.				
12. An assignment docum	ent for recordir	ng. A separate cover sheet i	n compliance with 37 CFR 3.28 and 3.31				
is included.							
13. A preliminary amendr	nent.						
14. An Application Data S		CFR 1.76.	·				
15. A substitute specificat							
16. ☐ A power of attorney ar		address letter					
_ /	_		with PCT Rule 13ter.2 and 37 CFR 1.821 -				
1.825.							
18. A second copy of the							
19. $\square$ A second copy of the	English languag	e translation of the Internat	onal Application under 35 U.S.C.				
154(d)(4).							
20. 🛛 Other items or inform	ation: CERTIF	ICATE OF EXPRESS MAIL	and CREDIT CARD PAYMENT FORM.				

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

21.		ICATION NO. (If	known, see 37 CFR	INTERNATION	IAL APPLICATION NO.	ATTORNEY DOCKET NO.		
BASIC NATIONAL FEE (37 CFR 1.492(q)(1) - (5)):  Whether international preliminary examination fee (37 CFR 1.482) not international search fee (37 CFR 1.485(q)(2)) paid to USPTO International search fee (37 CFR 1.485(q)(2)) paid to USPTO International search fee (37 CFR 1.482) not paid to USPTO International preliminary examination fee (37 CFR 1.482) not paid to USPTO USPTO but International search fee (37 CFR 1.482) not paid to USPTO International preliminary examination fee (37 CFR 1.482) not but USPTO Use International preliminary examination fee (37 CFR 1.482) not to USPTO Use International preliminary examination fee (37 CFR 1.482) not to USPTO Use International preliminary examination fee (37 CFR 1.482) not USPTO and all claims did not satisfy provisions of PCT Article 33 (1)-(4)  ENTER APPROPRIATE BASIC FEE AMOUNT =  Surcharge of \$130.00 for furnishing the earliest Adel USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4)  Surcharge of \$130.00 for furnishing the earliest Adel USPTO and all claims attributed by Use of USPTO and	1.5) <b>To Be A</b>	10/5	17188	PCT/JP2003	/007600	MAT-8638US		
Neither international preliminary examination fee (37 CFR 1.445) (27) gaid to USPTO and international search Report not prepared by the EPO or JPO   \$1110.00				(5)		CALCU	LATIONS PTO	USE ONLY
and International Search Rejort not prepared by the EPO or JPO International preliminary examination fee (37 CFR 1.482) not plat to USPTO Uniternational preliminary examination fee (37 CFR 1.482) not plat to USPTO Uniternational Search Rejort prepared by the EPO or JPO \$790.00 International preliminary examination fee (37 CFR 1.482) not plat to USPTO Use this control of the state by provisions of PCT Article 33 (1)-(4) International preliminary examination fee (37 CFR 1.482) poid to USPTO uniternational preliminary examination fee (37 CFR 1.482) poid to USPTO and all claims satisfied previolons of PCT Article 33 (1)-(4)  ENTER APPROPRIATE BASIC FEE AMOUNT =  Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  CLAIMS NUMBER FILED EXTRA NUMBER RATE  Total claims 101: 20							***	-
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$950.00  International search fee (37 CFR 1.445(p)(2)) paid to USPTO but international search fee (37 CFR 1.445(p)(2)) paid to USPTO but international search fee (37 CFR 1.445(p)(2)) paid to USPTO \$790.00  International preliminary examination fee (37 CFR 1.445(p) and to USPTO \$790.00  International preliminary examination fee (37 CFR 1.4482) paid to USPTO \$750.00  International preliminary examination fee (37 CFR 1.482) paid to USPTO \$100.00  ENTER APPROPRIATE BASIC FEE AMOUNT =  Surcharge of \$130.00 for furnishing the oath or dectaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  CLAIMS NUMBER FILED EXTRA NUMBER RATE Total claims \$101.20 = \$1					\$1110.00			
JUSPTO but International Search Report prepared by the EPO or IPO \$950.00  International preliminary examination fee (37 CFR 1.482) not paid to USPTO \$790.00  International Search Rep (37 CFR 1.482) paid to USPTO \$790.00  International preliminary examination fee (37 CFR 1.482) paid to USPTO \$750.00  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4) \$750.00  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4) \$100.00  ENTER APPROPRIATE BASIC FEE AMOUNT =  Surcharge of \$130.00 for furnishing the eath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  CLAIMS NUMBER FILED EXTRA NUMBER RATE  Total claims 101-20 = 81 X \$18.00 \$1.458.00  Independent claims 101-20 = 81 X \$18.00 \$1.458.00  Independent claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 9.  SUBTOTAL OF ABOVE CALCULATIONS = \$2,884.00  Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 9.  SUBTOTAL = \$2,884.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  TOTAL NATIONAL FEE = \$2,884.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.21(f)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 1.22(f)).  TOTAL NATIONAL FEE = \$2,884.00  Amount to be refunded:  TOTAL FEES CHARGED = \$2,924.00  Amount to be refunded:  Charged:  TOTAL FEES CHARGED = \$2,924.00  Amount to be refunded:  Charged:  To The Commission is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. In the amount of \$ to cover the	and inte	rnational Search i	report not prepared by t	the EPO of JPO	\$1110.00			
but international search fee (37 CFR 1.45(a)(2)) paid to USPTO  International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not statish provisions of PCT Article 33 (1)-(4)  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4)  Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  CLAIMS NUMBER FILED EXTRA NUMBER RATE Total claims 101-20 = \$11 X18.00 X18.00 X176.00  MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$300.00 \$1,458.00  TOTAL OF ABOVE CALCULATIONS = \$2,884.00  TOTAL OF ABOVE CALCULATIONS = \$2,884.00  Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.  SUBTOTAL = \$2,884.00  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 1.28(f)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 1.28(f)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 1.28(f)). The assignment must be accompanied by an appropriate tover sheet (37 CFR 1.28). 340.00 pc  TOTAL FEES CHARGED = \$2,924.00  Amount to be refunded: Charged:  a.								
but all claims did not satisfy provisions of PCT Article 33 (1)-(4)  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33 (1)-(4)  ENTER APPROPRIATE BASIC FEE AMOUNT =  ### Spo.00  Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  CLAIMS   NUMBER FILED   EXTRA NUMBER   RATE   Total claims   101 · 20 = 81   X \$18.00   \$1,458.00   Independent claims   5 · 3 = 2   X \$88.00   \$1,76.00								
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  CLAIMS NUMBER FILED EXTRA NUMBER RATE TOtal claims 101-20 = 81 X \$18.00 \$11.458.00   Independent claims 5 - 3 = 2 X \$88.00 \$176.00   MULTIPLE DEPENDENT CLAIM(S) (if applicable) \$300.00 \$300.00   TOTAL OF ABOVE CALCULATIONS = \$2,884.00    Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.  SUBTOTAL = \$2,884.00    Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  **TOTAL NATIONAL FEE = \$2,884.00    Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  **TOTAL NATIONAL FEE = \$2,884.00    Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  **TOTAL NATIONAL FEE = \$2,884.00    Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  **TOTAL NATIONAL FEE = \$2,884.00    **TOTAL NATIONAL FEE = \$2,884.00    **TOTAL FEES CHARGED = \$2,924.00    **Advance of the short of the earliest claimed priority date (37 CFR 1.28), 3.31). \$40.00 per property + \$40.00    **TOTAL FEES CHARGED = \$2,924.00    **Amount to be refunded: Charged: C	Internati but all cl	ional preliminary o laims did not satis	examination fee (37 CFR ify provisions of PCT Art	R 1.482) paid to US icle 33 (1)-(4)				
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TOTAL OF ABOVE CALCULATIONS   SUBTOTAL    CLAIMS   NUMBER FILED   STRAN NUMBER   RATE    Total claims   101 · 20 =   81	C		a franchina blas and	ar doclaration let-	er than 30 months		.00	
Total claims  101- 20 = 81	from the	earliest claimed	priority date (37 CFR	1.492(e)).		<b>P</b>		
Independent claims 5 - 3 = 2						¢1.450	00	
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a. A check in the amount of \$ to cover the above fees is enclosed.  b. Please charge my Deposit Account No in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.  c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0350. A duplicate copy of this sheet is enclosed.  d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.  Send All Correspondence to:  RatnerPrestia P.O. Box 980  Valley Forge, PA 19482  Pecember 7. 2004	property			TOTAL F	EES CHARGED =	\$2,924	.00	
a. A check in the amount of \$ to cover the above fees is enclosed.  b. Please charge my Deposit Account No. in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.  c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0350. A duplicate copy of this sheet is enclosed.  d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.  Send All Correspondence to:  RatnerPrestia P.O. Box 980  Valley Forge, PA 19482  Charged:  to cover the above fees is enclosed.  to cover the above fees in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to pending any additional fees which may be required, or credit any overpayment to pending any additional fees which may be required.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to pending any additional fees which may be required, or credit any overpayment to pending any additional fees which may be required.  Laurence E. Ashery Name  34.515 Registration Number  December 7, 2004			<del></del>			Αı	nount to be	
a.  □ A check in the amount of \$ to cover the above fees is enclosed.  b. □ Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.  c. ☑ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0350. A duplicate copy of this sheet is enclosed.  d. ☑ Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.  ☑ Customer Number  23122 (Insert Customer Not pere)  Inwrence E. Ashery Name 34.515 Registration Number December 7, 2004								
b. ☐ Please charge my Deposit Account No in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.  c. ☑ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0350. A duplicate copy of this sheet is enclosed.  d. ☑ Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.  ☑ Customer Number							Charged:	
A duplicate copy of this sheet is enclosed.  c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0350. A duplicate copy of this sheet is enclosed.  d.  Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.    Customer Number	а. Ц							
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d. ☐ Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.  ☐ Customer Number  Send All Correspondence to:  RatnerPrestia  P.O. Box 980  Valley Forge, PA 19482  Lawrence E. Ashery Name  34.515 Registration Number December 7, 2004	с. 🛭							it any
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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.     Separation   Sep	information should not be included on this form. Provide credit card information and authorization on PTO-							
(37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.  23122  or ☑ Correspondence address below  Clustomer Number  Send All Correspondence to:  RatnerPrestia  P.O. Box 980  Valley Forge, PA 19482  December 7, 2004								&•
Send All Correspondence to: RatnerPrestia P.O. Box 980 Valley Forge, PA 19482  Correspondence address below  Clinsert Customer No Inere)  Correspondence address below  Clinsert Customer No Inere)  Clinsert Customer No Inere)  Correspondence address below  Signature  Lawrence E. Ashery Name  34,515 Registration Number December 7, 2004	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the Application to pending status.							
Send All Correspondence to:  RatnerPrestia P.O. Box 980 Valley Forge, PA 19482  (Insert Customer No Incre)  Lawrence E. Ashery Name  34,515 Registration Number December 7, 2004								_
Send All Correspondence to:  RatnerPrestia P.O. Box 980 Valley Forge, PA 19482  Lawrence E. Ashery Name 34,515 Registration Number December 7, 2004	☐ Custor	mer Number			/ /	or 🗵	Correspondent	e address below
Send All Correspondence to:  RatnerPrestia P.O. Box 980 Valley Forge, PA 19482  Lawrence E. Ashery Name 34,515 Registration Number December 7, 2004					Jasen Z		lik,	<b>)</b>
RatnerPrestia P.O. Box 980 Valley Forge, PA 19482  Lawrence E. Ashery Name  34,515 Registration Number December 7, 2004	Send All	l Corresponden	ice to:				//	/
P.O. Box 980  Yalley Forge, PA 19482  34,515 Registration Number  December 7, 2004		•						
Valley Forge, PA 19482  Registration Number  December 7, 2004	1					/	//	
	Valley F	orge, PA 1948	, PA 19482 Registration Number					
				i		V		

			10/51/188
CERTIFICATE OF MAI	LIZEBY "EXPRESS MA	AIL" (37 CFR 1.1 T05 Rec'	d PCTGETREONS.DEC 2004
Applicant: Taka	ahite SHII, et al.		MAT-8638US
Application No.	Filing Date	Examiner	Group Art Unit
To Be Assigned	Herewith	To Be Assigned	To Be Assigned
Invention:			
1	·	E ELEMENT AND METHOD OF THE HEATING ELEMENT	<del>-</del>
I hereby certify that the f	following correspondence:		
PCT National Stage	Application with PTO-13	390 and its enclosures	
			<b>'</b>
Is boing denocited with the	• • • • •	<pre>of correspondence) ce "Express Mail Post Office to Ad</pre>	dressee" service under
37 CFR 1.10 in an envelo	pe addressed to:	a, VA 22313-1450 on: <b>Decemi</b>	<u> </u>
			•
		KATHLEEN LIBBY (Typed or Printed Name of Per	son Mailing Correspondence)
		Kathleen	Stike
		(Signature of Person Ma	niling Correspondence)
		EV 447 718 753 US	ing Label Number)
		("Express Mail" Mail	ing Labei Number)
		Market Market Street Warn	
	Note: Each paper must ha	ve its own certificate of mailing.	